

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING I		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/087,699	·	03/01/2002	Kou-Joan Cheng	08919-074001	4883		
26161	7590	02/22/2005		EXAMINER			
FISH &	RICHARD	SON PC	NAFF, DAVID M				
225 FRA	NKLIN ST						
BOSTON, MA 02110				ART UNIT	PAPER NUMBER		
	-			1651			

DATE MAILED: 02/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

• •					
		Applicat	ion No.	Applicant(s)	
•		10/087,6	99	CHENG ET AL.	
C	Office Action Summary	Examine	r	Art Unit	
		David M	. Naff	1651	
The Period for Re	MAILING DATE of this communic	ation appears on th	e cover sheet with the	correspondence add	ress
A SHORTI THE MAIL - Extensions of after SIX (6) - If the period - If NO period - Failure to re Any reply re	ENED STATUTORY PERIOD FO ING DATE OF THIS COMMUNIC of time may be available under the provisions of MONTHS from the mailing date of this community for reply specified above is less than thirty (30) for reply is specified above, the maximum statuply within the set or extended period for reply wiceived by the Office later than three months aftent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no endication. days, a reply within the statory period will apply and will, by statute, cause the ap	vent, however, may a reply be to tutory minimum of thirty (30) da vill expire SIX (6) MONTHS froi plication to become ABANDON	timely filed ays will be considered timely. m the mailing date of this com IED (35 U.S.C. § 133).	nmunication.
Status					
1)⊠ Resi	consive to communication(s) filed	on 15 December 2	2004.		
· ·		o)⊠ This action is i			
<u> </u>	e this application is in condition for	·—		rosecution as to the r	merits is
•	453 O.G. 213.				
Disposition o	f Claims				
4a) C 5)	m(s) <u>1-26</u> is/are pending in the ap of the above claim(s) <u>11-26</u> is/are m(s) is/are allowed. m(s) <u>1-10</u> is/are rejected. m(s) is/are objected to. m(s) are subject to restriction	withdrawn from co			
Application P	apers				
9) <u></u> The s	specification is objected to by the	Examiner.			
10)☐ The o	drawing(s) filed on is/are: a	a) accepted or b) ☐ objected to by the	Examiner.	
Appli	cant may not request that any objecti	on to the drawing(s)	be held in abeyance. So	ee 37 CFR 1.85(a).	
Repla	acement drawing sheet(s) including the	he correction is requi	red if the drawing(s) is o	bjected to. See 37 CFF	₹ 1.121(d).
11) The c	path or declaration is objected to b	by the Examiner. N	ote the attached Offic	e Action or form PTC)-152.
Priority under	· 35 U.S.C. § 119				
a)□ All 1.□ 2.□ 3.□	Certified copies of the priority do	ocuments have been ocuments have been the priority documents Bureau (PCT Ru	en received. en received in Applica ents have been receiv le 17.2(a)).	tion No ved in this National S	itage
Attachment(s)				•	
	eferences Cited (PTO-892)		4) Interview Summar	y (PTO-413)	
2) 🔲 Notice of Di	raftsperson's Patent Drawing Review (PTO Disclosure Statement(s) (PTO-1449 or PTO-1449 or		Paper No(s)/Mail [152)
)/Mail Date <u>3/1/02</u> .	,,	6) Other:	.,	•

Application/Control Number: 10/087,699 Page 2

Art Unit: 1651

15

20

DETAILED ACTION

In a response of 12/15/04 to a restriction requirement of 10/6/04, applicants elected Group I claims 1-10 without traverse.

Claims 11-26 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 12/15/04.

Claims examined on the merits are 1-10.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "white liquor waste" is uncertain as to meaning and scope. This term does not appear to have an art recognized meaning, and it would be it would be uncertain as to waste that is white and not white.

Claim Rejections - 35 USC § 102

25 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Application/Control Number: 10/087,699 Page 3

Art Unit: 1651

5

10

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-6 and 8-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Chen et al (AQ on PTO-1449).

The claims are drawn to a composition containing a thermolabile protein, which can be an enzyme, admixed with a liquor waste, which can be a sorghum liquor waste. The enzyme can be phytase as disclosed in the specification.

Chen et al discloses improving the thermostability of phytase by mixing the phytase with sorghum waste liquor.

The mixing of phytase with sorghum waste liquor as disclosed by

Chen et al results in a composition that is the same as presently claimed.

Chen et al appears to have been published in 2001 prior to 3/1/01. If not, it is a reference under 35 U.S.C. 102(a) since Tsung-Yin Tang is an inventor, but is not an author resulting in the authorship of the Chen et al being different from the inventive entity of the present application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

25

30

20

Application/Control Number: 10/087,699

Art Unit: 1651

5

10

15

20

25

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Page 4

Claims 2 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al in view of Cory (4,077,842).

Claims 2 and 7 additionally require the composition to be dried.

Cory discloses producing a dried stabilized enzyme composition.

For example, see claims 14 and 15.

It would have been obvious to dry the mixture of phytase and sorghum waste liquor disclosed by Chen et al to make the mixture more storage stable and reduce volume for transportation as suggested by Cory drying a stabilized enzyme composition.

Conclusion

Any inquiry concerning this communication or earlier .

communications from the examiner should be directed to David M. Naff whose telephone number is 571-272-0920. The examiner can normally be reached on Monday-Friday 9:30-6:00.

Application/Control Number: 10/087,699

Art Unit: 1651

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Wityshyn can be reached on 571-272-

0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David M. Naff Primary Examiner Art Unit 1651 Page 5

DMN

15

5

10

2/17/05